

METHODS AND APPARATUS FOR INSPECTION  
UTILIZING PULSED EDDY CURRENT

ABSTRACT OF THE DISCLOSURE

In some aspects, the present invention provides a method for estimating at least one measurement/object property of a metal object. The method includes generating a time-varying eddy current in a wall of the metal object utilizing a pulsed-signal transmitter. The method further includes measuring the time-varying eddy current, fitting the time-varying measured eddy current to a parameterized polynomial, and interpreting the parameterized polynomial to determine one or more measurement/object properties of the metal object.